



Specifications for SWC #201 Equipment Rental

A. Scope of Work

The purpose of this Statewide Contract ("SWC") is to provide equipment rental services for State of Tennessee ("State"). Equipment rental services includes broad categories of equipment and specific equipment within each category. There are eighteen (18) categories of equipment included for rental. The Contractor(s) shall provide all goods or services required by this Contract to all Tennessee State Agencies and shall also make this Contract available to all Authorized Users, as defined in the Terms and Conditions. Contractor(s) agrees to extend this Contract to Authorized Users.

B. Definitions

Agency	State of Tennessee board, commission, committee, department, office, or any other unit of State government except for those governmental entities identified in Tenn. Code Ann. § 12-3-102(a).
Central Procurement Office or CPO	The State of Tennessee Central Procurement Office (CPO).
DGS	Department of General Services
Downtime	Calculated from the time a service call is placed to the Contractor until the time the technician completely repairs the equipment.
Normal State Operating Hours	Monday through Friday 8:00 AM – 4:30 PM, excluding legal State holidays. A listing of State holidays can be found at http://www.tn.gov/state-holidays.shtml .
Wear and Tear	Deterioration that occurs over time with the use of the equipment even though the equipment receives reasonable care and maintenance. Such deterioration could be caused by exposure, time, or ordinary and reasonable use of the equipment.

C. Rental Specifications

- a. Unless otherwise stated, weekly rental rates are based on one (1) week of usage based on an eight (8) hour day and a forty (40) hour week. Monthly rental rates are based on one (1) month of usage based on an eight (8) hour day and a forty (40) hour week. One month is equal to four (4) weeks or one hundred sixty (160) hours of usage. If the Authorized User uses the equipment for more than 160 hours during the monthly rental term, Contractor will prorate the Authorized User's additional use.

- b. Contractor will receive a minimum of three (3) calendar days' notice to deliver equipment to the Authorized User's specified location after a purchase order or request is made. The specified equipment must be delivered within those three (3) days unless a different delivery time is mutually agreed to by the Authorized User and Contractor. If the specified equipment is unavailable for delivery within those three (3) days, then the Contractor shall provide an equivalent or larger unit at the same price. If Contractor initially delivers a larger piece of equipment than requested and then swaps it with the size originally requested, the Authorized User shall not incur any additional costs.
- c. Contractor is responsible for full delivery and pick-up, including but not limited to, acquiring required permits. Contractor shall be required to deliver and pick-up the rental equipment at no additional cost to the State.
- d. Contractor shall not charge any additional fees such as an environmental fee.
- e. If an equipment breakdown occurs during the rental term, the Contractor is responsible for equipment repairs, cost, and rental rate adjustment for the Downtime. If equipment Downtime exceeds twenty-four (24) hours, the Contractor is responsible for providing operational equipment ("Replacement") of equal or greater value at no additional expense to the State. Contractor shall replace equipment within forty-eight (48) hours. Contractor shall incur all transportation costs associated with providing the Replacement. The Contractor will not charge the Authorized User for the time during which the equipment was down.
- f. If an equipment breakdown occurs during the rental term, the Contractor will confirm with the Authorized User if they want to extend the rental by the same number of days the equipment is broken down at no additional cost or to prorate the cost of the rental. It is the Contractor's responsibility to coordinate the removal of the equipment with the Authorized User at a mutually agreeable time for equipment breakdowns that exceed Downtime of twenty-four (24) hours.
- g. Contractor shall not bill the Authorized User for costs of Normal Wear and Tear to rented property as determined by the formal discretion of the Authorized User.
- h. Any Authorized User seeking to extend the rental term must notify the Contractor via email or purchase order at least a minimum of seven (7) calendar days prior to the initial end date of the rental term.
- i. Rental term shall end when the Authorized User notifies the Contractor, in writing or by phone, that the equipment is ready for pick up. It is the Contractor's responsibility to coordinate the removal or pick up of the equipment with the Authorized User at a mutually agreeable time. If Contractor is notified and mutually agrees to pick up equipment and pick up is delayed by the Contractor, the Authorized User shall not incur any additional costs.
- j. The Contractor shall have a two (2) hour maximum response time to respond to an Authorized User's call or email during Normal State Operating Hours, unless otherwise specified by the Authorized User. Response time is satisfied when the Contractor responds to the Authorized User either by email or telephone. Authorized Users may request specified means of contact. For equipment requests outside of the Normal State Operating Hours, the Contractor shall have an eight (8) hour maximum response time.

- k. Contractor must be a manufacturer's authorized dealer or full-service rental company and must have parts and service facilities within its awarded region(s). Contractor must have available parts, sales, services, specialized tools, and service vehicle. Contractor must supply documentation with bid that substantiates they are capable of providing parts and service within its awarded region(s).
- l. The Contractor will be responsible for all routine maintenance unless Contractor and Authorized User mutually agree in writing to allow Authorized User to perform routine maintenance. Manufacturer's standard warranty is the responsibility of the Contractor. Routine maintenance must be provided at no additional cost including parts and labor. Maintenance to be provided per suggested maintenance schedule. The Authorized User will be responsible for daily operator care, such as checking fluids, tire pressure, lubricating key components, belts, and lights when equipment is in their use. The Authorized User must provide the appropriate usage data for equipment (i.e., number of hours, remaining battery life) to Contractor on a monthly basis for scheduling of routine maintenance.
- m. All equipment shall be delivered full of fuel and will be returned full of fuel. If the Authorized User fails to fill the fuel tank up to the same level that was present at delivery, the Contractor may charge their standard fuel charge plus the average retail cost of fuel for the Midwest region according to the United States Energy Information Administration (<https://www.eia.gov/petroleum>).
- n. The Contractor must have a dedicated emergency hotline to answer and provide equipment for declared states of emergency. Authorized User must identify emergency equipment requests as such in the call. Emergency equipment requests must be on site in twenty-four (24) hours, or otherwise mutually agreed upon time. A toll-free telephone number and an email address shall be provided to the CPO, and must be continuously answered/monitored seven (7) days a week and twenty-four (24) hours a day.
- o. The Contractor shall designate a contract manager for the contract. The contract manager will be a single point of contact for the CPO and be responsible for addressing broad contract issues and requests brought to them by the CPO. The contract manager should have the authority and competence to address and correct any issues related to the contract. The Contractor shall notify the CPO in writing within three (3) business days of assigning a new contract manager. Authorized Users must be able to reach out to each contact with questions including, but not limited to the following: billing, invoices, and services. The Contractor shall also designate an emergency contract manager for the contract in cases when an emergency job arises.

D. Equipment Specifications

- a. All rental property, unless otherwise specified, must be less than four (4) years old (from date of original manufacture) and have less than two thousand (2,000) hours of use to provide optimum performance, unless fewer hours of use specified for equipment detailed below. Refurbished equipment is not acceptable.
- b. Trench Safety & Shoring Equipment
 - I. Rental Term – Monthly or Twelve (12) months
 - II. Soil Type Classifications

- i. Soil classification shall be in accordance with OSHA Appendix A to Subpart P of Part 1926 and classified just prior to installing hydraulic vertical shores. Soil conditions may change at a later date and require hydraulic vertical shores to be reset at a different spacing.
 - ii. The equivalent weight of OSHA soil types* is assumed to be as follows:
 - 1. OSHA Type "A" Soil 25 PSF per ft. of depth
 - 2. OSHA Type "B" Soil 45 PSF per ft. of depth
 - 3. Type "C-60" Soil 60 PSF per ft. of depth**
 - 4. OSHA Type "C" Soil 80 PSF per ft. of depth

* These equivalent weights were adapted from OSHA 1926 Subpart P App C, Timber Shoring for Trenches, Tables C-1.1, C-1.2, and C-1.3

** Type C-60 soil is not identified or classified in OSHA Appendix A
- II. Type C-60 soil is soil that does not qualify as OSHA Type A, or Type B, can be cut with vertical walls and will stand up long enough to safely insert and pressurize the hydraulic shore.
- III. Competent Person - The supplier must provide a Competent Person, as defined under OSHA Standards, to assist Authorized Users on device selection, identifying existing and predictable hazards, pickup and delivery, and training on the proper usage of each piece of equipment.
- IV. Equipment
 - i. Adjustable Spreaders & Accessories
 - 1. Adjustable Spreaders
 - a. Certified to meet OSHA requirements that meet the Code of Federal Regulations ("CFR") 29, Part 1926, Subpart P - Excavations, Section 1926.652(c)(2) and applicable appendices.
 - b. Operating ranges between:
 - i. 26" - 36" (inch)
 - ii. 34" - 48"
 - iii. 40" - 60"
 - iv. 48" - 72"
 - v. 60" - 96"
 - c. Any accessory necessary to the proper usage of the spreaders
- V. Aluminized Modular Shields & Accessories
 - i. Certified to meet OSHA requirements that meet the CFR 29, Part 1926, Subpart P - Excavations, Section 1926.652(c)(2) and applicable appendices.
 - ii. Modular aluminum trench shields must have the ability to be assembled in two, three, or four-sided configurations
 - iii. Smooth, foam-filled sidewall
 - iv. Pulling and lifting lugs
 - v. Stackable
 - vi. Tongue and groove design
- VI. Trench Boxes - Double Wall Steel Trench Shields
 - i. Certified to meet OSHA requirements that meet the CFR 29, Part 1926, Subpart P - Excavations, Section 1926.652(c)(2) and applicable appendices.

- ii. Replaceable push blocks
 - iii. ½" steel reinforcement plates
 - iv. Spacers of any width
 - v. Heavy-duty stacking sockets
 - vi. Thru-wall spreader sockets
 - vii. Easy-Access Lifting Pockets
 - viii. 4", 6", and 8" options
- VII. Bedding and Rock Boxes
 - i. Certified to meet OSHA requirements that meet the CFR 29, Part 1926, Subpart P - Excavations, Section 1926.652(c)(2) and applicable appendices.
- VIII. Road Crossing Plates
 - i. Plates must be made from ASTM A-36 steel
 - ii. Plates must be able to be lifted
 - iii. Certified to meet OSHA requirements that meet the CFR 29, Part 1926, Subpart P - Excavations, Section 1926.652(c)(2) and applicable appendices.
- IX. Accessories
 - i. Pipe and Construction Lasers
 - 1. Pipe lasers must allow one to see the percent ("%") grade from outside the manhole
 - 2. Must withstand elements such as rain or snow
 - 3. Must have protective coating to shield it from stones and debris
 - 4. Must be durable enough to withstand a drop
 - 5. Has a range of -15% to 40% self-leveling
- X. End Shores
 - i. Certified to meet OSHA requirements that meet the CFR 29, Part 1926, Subpart P - Excavations, Section 1926.652(c)(2) and applicable appendices.
 - ii. Any combination of end shore rail length and strut width must be able to be used together
- XI. Trench Safety and Shoring Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Trench Safety and Shoring category. The Contractor shall apply a percent off discount for items within the catalog.

c. Tractors

- I. Rental Term – Weekly, Monthly, or twelve (12) months
- II. Tractor with Flex-wing Mower, Double Deck Required
 - i. 89 PTO ("power take off") HP ("horsepower")
 - ii. Engine: 274 Cubic inch minimum
 - iii. Factory Cab Heat and Air (CHA)
 - iv. Valves – 3 sets of remote valves (total of 6 couplers) required
 - v. Front and rear tread width – approximately 80" Center to Center (c-c)
 - vi. Tractor must have steering column forward reverse shuttle lever
 - vii. Must have less than 600 hours upon delivery
 - viii. MFWD ("mechanical front wheel drive")

- ix. Front Weights: 800 lbs. (pound)
- x. With 15' FT (foot) flex-wing mower
- xi. Double deck
- xii. Domed top design
- xiii. Acceptable brands/models: tractor: John Deere 6105E, New Holland T6.145 or equal; mower: John Deere HX15, Bush Hog 2815 or equal.

III. Tractors

- i. Applies to Tractors listed below:
 - 1. Cab - factory cab required
 - 2. MFWD required
 - 3. Factory CHA required on 89 HP and above (under 89 HP Factory CHA is optional)
 - 4. Transmission - synchro transmission, minimum 12 forward/12 reverse
 - 5. PTO RPM ("rotations per minute") - 540 wet clutch pack required
 - 6. Valves – 1 set of remote valves (total of 2 couplers) required
 - 7. Front and rear tread width – approximately 80" (c-c)
 - 8. Tractor must have steering column forward reverse shuttle lever
 - 9. Must have less than 600 hours upon delivery
- ii. 50 PTO HP
 - 1. Left-hand power reverser
 - 2. Factory CHA optional
 - 3. Acceptable brands/models: John Deere 5065E, New Holland T4.65 or Equal
- iii. 70 PTO HP
 - 1. 4-cylinder
 - 2. Left-hand power reverser
 - 3. Factory CHA optional
 - 4. Acceptable brands/models: John Deere 5085E, New Holland T4.90 or Equal
- iv. 89 PTO HP Tractor
 - 1. 4-cylinder, Engine: 274 cubic inch minimum
 - 2. Left-hand power reverser
 - 3. Wet Disk Brakes
 - 4. Acceptable brands/models tractor: John Deere 6105E, New Holland T4.65 or equal
- v. 89 PTO HP Tractor with loader
 - 1. Engine: 274 Cubic inch minimum
 - 2. Front end loader with minimum 73" bucket
 - 3. 3,500 lbs. lift capacity (not for salt use)
 - 4. Acceptable brands/models tractor: John Deere 61120E, New Holland T6.145 or equal
- vi. 89 PTO HP Tractor with boom mower
 - 1. Engine: 274 cubic inch minimum
 - 2. *Side-mount 22' FT Boom Mower
 - 3. 4-cylinder
 - 4. Left-hand power reverser
 - 5. Two section articulated boom
 - 6. 60" rotary cutting head
 - 7. Hydraulically actuated, center feed, metal door front shield
 - 8. Rubber material rear shield

9. Must meet or exceed ANSI S474/SAE J232 Industrial Rotary Mower
10. Self-contained hydraulic circuit for mowing head and boom control
11. Cutter head minimum cutting width of 58"
 - a. Constructed using a minimum of A606 alloy steel or equal
12. Acceptable brands/models tractor: John Deere 6105E, New Holland T6.145, Alamo Machete or equal

IV. Product liability insurance

- i. Section 7.38.5 of the Terms and Conditions requires Product Liability Insurance for the Tractor Category. Contractor(s) awarded the Tractor category must provide a certificate of insurance ("COI") evidencing insurance coverage that shall cover liability arising from property damage, premises damage, and bodily injury sustained from the use of the mowing equipment in an amount of not less than twenty-five million dollars (\$25,000,000) per occurrence for the product subject to its bid.

V. Tractor Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Tractor category. The Contractor shall apply a percent off discount for items within the catalog.

e. Mowers

- I. Rental Term – Weekly, Monthly, or twelve (12) months
- II. Commercial Cab Boom Mower
 - i. 50" inch cutting head
 - ii. 22 FT. Boom
 - iii. 150 HP Engine
 - iv. Acceptable brands/models: Mowermaxx Model MM100 or equal.
- III. Mower Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Mower Category. The Contractor shall apply a percent off discount for items within the catalog.

f. Attenuators

- I. Rental Term – Monthly
- II. Trailer Mounted Attenuator
 - i. Support structure with articulating arms
 - ii. A dual cartridge attenuation system (replaceable cartridge if damaged)
 - iii. Impact frame
 - iv. Cylinder hitch assembly (trailer hitch with cylinder dampener system)
 - v. Intermediate steel frame
 - vi. Suspension, axle, wheels, and tires will be located in the approximate center of the trailer (axle located at rear not acceptable)
 - vii. 15 light arrow board; powered by truck via trailer electrical connector, manual tilt
- III. Truck Mounted Attenuator (TMA)
 - i. Truck to be in a weight range that complies with the guidelines if mash-16 test level three (3) for TMA.
 - ii. The TMA shall have been tested to, and successfully passed all four (4) tests that fall under the guidelines of mash-16 test level 3 for truck mounted attenuators.
 - iii. TMA Support structure with articulating arms.
 - iv. A dual cartridge attenuation system (replaceable cartridge if damaged).
 - v. Impact frame.
 - vi. Cylinder hitch assembly.

- vii. Intermediate steel frame.
- viii. 15 light arrow board; manual tilt.

g. Portable Traffic Control Signals

- I. Rental Term – Weekly, Monthly, or twelve (12) months
- II. Applies to Systems listed below:
- III. Manual, fixed time, and traffic actuated operation options
- IV. Battery powered and 110-volt charging
- V. 12" diameter LED lamps (red, yellow/amber, green)
- VI. National Electrical Manufacturers Association ("NEMA") and Manual on Uniform Traffic Control Devices ("MUTCD") compliant
- VII. Storage/transport trailer
- VIII. Short-term usage – estimated fifty (50) hours battery life
 - i. National Cooperative Highway Research Program ("NCHRP") 350 Test Level 3 compliant
- IX. Long-term usage – solar powered estimated thirty (30) days without recharging
 - i. Dual signals
 - ii. Remote Monitoring System – User access to manage and monitor Portable Traffic Systems, i.e. location, run time, battery status, and system logs.
 - iii. Capable of monitoring both traffic directions
 - iv. Overhead adjustable mast arm with 180-degree rotating signal head
- X. Portable Traffic Control Signals Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Portable Traffic Control Signals Category. The Contractor shall apply a percent off discount for items within the catalog.
 - i. The Portable Traffic Control Signals Catalog must contain the following add-ons:
 - 1. Remote Monitoring System Add-on for short-term usage. User access to manage and monitor Portable Traffic Systems, i.e. location, run time, battery status, and system logs.
 - 2. Wireless Remote Add-on for short-term or long-term usage.
 - 3. Cabled Remote Add-on for short-term or long-term usage.
 - 4. Signal Change Vehicle Detection Capability Add-on for short-term or long-term usage. System detects traffic within the work zone and automatically adjusts signal change to the appropriate duration in both traffic directions (i.e., slow moving traffic through work zone).

h. Automatic Flagger Assistance Devices (AFAD)

- I. Rental Term – Monthly or twelve (12) months
- II. The AFAD shall include two signal trailers with red and yellow/amber signal lights, a gate arm, and wireless radio.
- III. Accepted Brands/Models: Safety Technologies AF-54 AutoFlagger model, John Thomas Inc. Sentinel AFAD Trailer, and Synergy Technology AF100, or equal.
- IV. Controller
 - i. Remote control of gate arm and signal lights
 - ii. Menu display
 - iii. Radio signal status
 - iv. Multi-programming function
 - v. Secure/tamper proof
 - vi. NEMA rated
 - vii. Conflict Monitor

- viii. LCD Display, battery life
 - ix. Manual Override
 - x. Power System
 - 1. Rechargeable Battery
 - 2. Battery cabinet: lockable, weathertight, plastic composite or other metal/alloy
 - 3. Solar recharging capability
 - a. Integrated 110V maintenance charger
- V. LED Signal Lights
- i. 12" red and 12" yellow (amber)
 - ii. Institute of Transportation Engineers ("ITE") compliant
 - iii. Rear-facing, LED mounted on the signal housing indicating the status of the signal light to an operator within the work zone.
- VI. Gate Arm
- i. Minimum of 8 ft length
 - ii. Alternating (red/white) colors retro-reflective sheeting
- VII. Radio System
- i. Frequency hopping spread spectrum transceivers operating in minimum 900 MHZ band (Federal Communications Commission ("FCC") compliant)
- VIII. Trailer
- i. Frame:
 - 1. Capable of two-unit tandem towing
 - 2. Maximum width 48" for transport
 - 3. Minimum 2" ball or pintle hitch/coupler
 - a. The AFADs shall include a "STOP HERE ON RED" (R10-6 or R10-6a), retroreflective, regulatory sign, permanently attached to the trailer unit and properly visible to approaching motorist according to MUTCD letter heights and visibility requirements.
 - i. DOT approved trailer lighting
 - 4. Signal Light Mast:
 - a. Fully adjustable height for Signal Light within range of 80" - 147" (from ground to top of signal backplate)
 - b. Federal standard orange durable paint
 - c. 1100 lbs. minimum rated axle
 - d. Four-leg jack system to level the trailer
 - ii. Owner's Manual & Catalog Offerings
 - 1. Contractor shall provide the owner's manual with each AFAD rental.
 - 2. Contractor shall offer a catalog of additional accessories, equipment, rental lengths, and related offerings, such as trainings, for the AFAD. The Contractor shall apply a percent off discount for items within the catalog.
- i. Earth Moving Equipment – Track Mounted Excavators & Backhoes
- i. Rental Term – Weekly, Monthly, or twelve (12) months
 - ii. Excavator 1.09 YD (yard) minimum with bucket

1. Minimum 46,000 lbs.
 2. 145 HP
 3. Must be compatible with hammer and plumbed with auxiliary hydraulics
- iii. Excavator 2.3 YD minimum
 1. 78,000 lbs.
 2. 245 HP
 3. SAE Controls with bucket
 4. Must be compatible with hammer and plumbed with auxiliary hydraulics
- iv. Excavator 3/4 YD minimum
 1. 35,900 lbs.
 2. 94 HP minimum
- v. Mini-Excavator
 1. Automatic Transmission
 2. 11,200 lbs.
 3. Boom swing
 4. Travel speed – 1.5 – 3.0 mph
 5. Minimum 35 HP
 6. Acceptable brands/models: John Deere 50G, or equal
- II. Grapples
 - i. Rental Term – Weekly, Monthly, or twelve (12) months
 - ii. Mechanical Thumb, Compatible with 145 HP Excavator
 - iii. Mechanical Thumb, Compatible with 245 HP Excavator
- III. Hammers
 - i. Rental Term – Weekly, Monthly, or twelve (12) months
 - ii. Compatible with 145 HP Excavator, automatic greaser
 - iii. Compatible with 245 HP Excavator, automatic greaser
- IV. Backhoe
 - i. 4WD (four-wheel drive)
 - ii. Standard front bucket
 - iii. Factory cab with heat and air conditioning
 - iv. Rear bucket
 1. 12” or 24”
 - v. Minimum 74 SAE HP
 - vi. Track Mounted Excavators and Backhoe Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Earth Moving Equipment – Track Mounted Excavator and Backhoe Category such as a steel excavator. The Contractor shall apply a percent off discount for items within the catalog.
- j. Earth Moving Equipment – Truck Mounted Excavators
 - I. Rental Terms – Weekly, Monthly, or twelve (12) months
 - II. Highway Speed Hydraulic Excavator
 - i. Automatic transmission
 - ii. Auxiliary hydraulics
 - iii. A/C in upper and lower cabs
 - iv. 32,000 lbs. with ditching bucket and fixed thumb grapple
 - v. Acceptable brands/models: Gradall D152 or equal
 - III. Highway Speed Hydraulic Excavator with automatic transmission
 - i. Auxiliary hydraulics
 - ii. A/C in upper and lower cabs
 - iii. 49,000 lbs. with ditching bucket and fixed thumb grapple

- iv. Acceptable brands/models: Gradall XL 4100 or equal
- IV. Truck Mounted Excavators Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Earth Moving Equipment – Truck Mounted Excavator Category. The Contractor shall apply a percent off discount for items within the catalog.
- k. Earth Moving Equipment – Loaders & Dozers
 - I. General purpose buckets are required. Light material buckets are not acceptable.
 - II. Rental Term – Weekly, Monthly, or twelve (12) months
 - i. 2.5 YD
 - 1. Rubber tired
 - 2. Minimum 145 HP
 - 3. Minimum 25,500 lbs.
 - ii. 3 YD
 - 1. Rubber Tired
 - 2. Minimum 160 HP
 - 3. Minimum 30,000 lbs.
 - iii. 4 YD
 - 1. Rubber tired
 - 2. Minimum 180 SAE HP
 - 3. Minimum 38,000 lbs.
 - iv. Compact track loader with land management package
 - 1. 107 HP
 - 2. Enclosed cab rollover protection structure (ROPS)
 - 3. Minimum 12,000 lbs.
 - 4. Hi-flow hydraulics with pump flow of 40 gallons per minute (“GPM”)
 - 5. Land management package to provide shields, guards, and deflectors to protect machine during operation. Shall include reversable engine fan.
 - 6. Beacon
 - v. Compact track loader
 - 1. 107 HP
 - 2. Enclosed cab ROPS
 - 3. Minimum 12,000 lbs.
 - 4. Standard general bucket (removable teeth)
 - 5. Beacon
 - 6. Optional bucket attachments should be available. (Grapple, forks, etc.)
 - vi. Skid steer loader
 - 1. 95 HP
 - 2. Enclosed cab ROPS
 - 3. Minimum 8,000 lbs.
 - 4. Standard general bucket (removable teeth)
 - 5. Beacon
 - 6. Optional bucket attachments should be available. (Grapple, forks, etc.)
 - vii. Dozer
 - 1. Track
 - 2. 6-way blade
 - 3. 92 SAE HP minimum
 - 4. Minimum 18,300 lbs.
 - 5. Acceptable brand/model: Caterpillar D4 or Equal.

- III. Loader & Dozers Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Earth Moving Equipment – Loader & Dozer Category. The Contractor shall apply a percent off discount for items within the catalog. The Loader & Dozer Catalog must include skid steer, track, compact, and articulating wheel loaders. The Loader & Dozer Catalog must include a variety of dozer sizes. Accessories that must be included are augers, grapples, trenchers, snowplows, planer, and rock hounds.
 - I. Earth Moving Equipment – Graders
 - I. Rental Term – Weekly or Monthly
 - II. Motor Graders
 - i. Operating Weight minimum 36,000 lbs.
 - ii. 145 HP
 - iii. Direct drive transmission, 8 forward/6 reverse
 - iv. Turning radius maximum 292"
 - v. Articulation 20 degrees minimum
 - vi. Side shift minimum 26"
 - vii. All wheel drive
 - viii. 14' mold board
 - ix. Heated mirrors
 - x. Rearview camera
 - xi. Acceptable brands/models: Cat 120, Deere 622G, or equal.
 - III. Graders Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Earth Moving Equipment – Grader Category. The Contractor shall apply a percent off discount for items within the catalog.
- m. Pavers
 - I. Rental Term – Weekly, monthly, or twelve (12) months
 - II. Asphalt Paver
 - i. Minimum 12,000 lbs.
 - ii. Minimum 50 HP
 - iii. Paving Width 5' FT to 9' FT
 - iv. 5 Ton Hopper
 - v. Track Driven
 - III. Pavers Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Pavers Category. The Contractor shall apply a percent off discount for items within the catalog.
- n. Pothole Patcher
 - I. Rental Term – Weekly, Monthly, or twelve (12) months
 - II. Trailer mounted with 250 GA (gallon) emulsion tank
 - III. Acceptable brands/models: Cimline Durapatcher or equal
- o. Aerial Work Platforms
 - I. Rental Term – Weekly, Monthly, or twelve (12) months
 - II. Minimum 60' FT Working Height, Boom Lift. Rugged Terrain, Diesel Powered
 - III. 40' FT 4WD telescopic Boom lift
 - i. Acceptable brands/models: JLG 400s or equal
 - IV. 30' FT Manual Lift
 - i. Acceptable brands/models: Genie AWP30SDC or equal
 - V. 26' FT Scissor lift

- i. Acceptable brands/models: JLG 2630es or equal
- VI. Aerial Work Platforms Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Aerial Work Platform Category. The Contractor shall apply a percent off discount for items within the catalog.
- p. Culvert Cleaners
 - I. Rental Term – Weekly, Monthly, or twelve (12) months
 - II. Trailer Mounted
 - i. 700 GA water tank
 - ii. 65 HP diesel engine
 - iii. 40 GPM at 2,000 PSI (pounds per square inch) water pump
 - iv. Pivoting hose reel with 500' FT of 1/4" hose
 - v. 15 degree and 35-degree radial nozzles
 - vi. KEG torpedo and Royal nozzles
 - vii. 2 tiger tails
 - viii. 25" fill hose and hydrant wrench
 - III. Mechanical Culvert Cleaner
 - i. Trackhoe and 12" auger system
 - ii. Capable of cleaning 12" to 8' diameter round or boxed pipe up to 140' long
- q. Forklift & Material Handling
 - I. Weekly, Monthly, or twelve (12) months
 - II. Internal Combustion Forklifts
 - i. 5,000 to 10,000 lbs. lifting capacity
 - ii. Propane power type
 - iii. Maximum Fork Height – 187"
 - iv. Load capacity – 6,000 lbs.
 - 1. Acceptable brands/models: Toyota 8FGU30, or equal.
 - III. Electric Pallet Jack
 - i. Electric engine power
 - ii. Travel Speed 3.6 mph
 - iii. Load capacity 4,500 lbs.
 - 1. Acceptable brands/models: Toyota 8HBW23, or equal.
 - IV. Telehandler
 - 1. Acceptable brands/models: John Deere 4045TF150 or Equal
 - 2. 4 Cylinder
 - 3. Displacement: 200 cubic inch
 - 4. Rated Speed: 2,500 RPM
 - 5. Maximum Gross BHP: 99 HP
 - 6. Cab
 - a. Certified ROPS/ Falling Objective Protective Structure (FOPS)structure, adjustable seat, and horn
 - 7. Performance
 - a. Rated Capacity: 24" load center, 9,000 lb.
 - b. Lift Height: Shall reach minimum 42' FT
 - c. Forward Reach: Shall reach minimum 26.5' FT
 - V. Forklift & Material Handling Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Forklift & Material Handling Category. The Contractor shall apply a percent off discount for items within the catalog.

- r. Power, Lights, Climate Control, & Signage
 - I. Rental Term – Weekly or Monthly
 - II. LED Mobile Light Tower
 - i. Diesel/T4 Engine
 - ii. 10.5 HP at 1800 RPM
 - iii. Max light run hours – 225
 - iv. Fuel tank capacity – 56.4 gallons
 - v. Minimum 462,000 lumens
 - 1. Acceptable brands/models – MLT4606M/V or equal
 - III. Generators
 - i. Towable Silenced Diesel Generators
 - 1. Prime and Standby Rating - 60 HZ
 - 2. 90 kW, Standby 100kW
 - 3. Acceptable Brand or Model – Cummins C1000D2RE, or equal
 - ii. Diesel Generators 70kVA
 - 1. 70 kVA
 - 2. Fuel Tank Capacity – 84 Gallons
 - 3. Prime Kilowatts 56 kW
 - 4. Acceptable brands/models – Wacker Nueson G70, Multiquip DCA-70, or equal
 - iii. Diesel Generators 130 kVA
 - 1. Fuel tank capacity – 342 gallons
 - 2. Full tank run time – 44 hours
 - 3. Programmable controller
 - 4. Acceptable brands/models – Generac Mobile Product MMG130D or equal
 - iv. Portable Generators 5600 Watts
 - 1. Gasoline powered
 - 2. Maximum Amps 46.7
 - 3. 10.7 HP
 - 4. 5-gallon fuel capacity
 - 5. Full tank run time – 5.8 hours
 - 6. Acceptable brands/models – Wacker Neuson GP5600A or equal
 - v. Portable Generators 9700 Watts
 - 1. Gasoline Powered
 - 2. Maximum Amps 80.8
 - 3. 18 HP
 - 4. 6.1 gallon fuel capacity
 - 5. Full tank run time – 3.7 hours
 - 6. Acceptable brands/models – Wacker Neuson GP59700V or equal
 - IV. Three Line Message and Full Matrix Signs
 - i. Solar Powered – 130W Minimum
 - ii. Towable
 - iii. Touchscreen Controller
 - iv. Password Protected
 - v. 360-degree display rotation
 - vi. Display – Four yellow/amber LEDs
 - vii. Hydraulic Lift
 - viii. Minimum letter height of 10”

- V. Medical Grade Air Scrubber
 - i. 400 cubic feet per minute (CFM)
 - ii. 62-64 decibels certifications
 - iii. Antimicrobial powder coating
 - iv. 360-degree air flow
 - v. High efficiency particulate air (HEPA) pre filter
 - vi. Ultraviolet-c (UV-C) 253.7 nanometers (nm) 36W non-ozone light array
 - vii. Acceptable brands/models – Scientific Air S400 or equal.
- VI. Power, Lights, Climate Control, & Signage Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Power, Lights, Climate Control & Signage Category. The Contractor shall apply a percent off discount for items within the catalog. The Catalog must contain various sizes of towable silenced, diesel, and portable generators. The Catalog must contain various climate control products such as portable heaters or air conditioners. The Catalog must also contain any and all cables or accessories that an Authorized User may need to effectively use the equipment.

s. Pumps

- I. Rental Term – Weekly or Monthly
- II. Dry-prime pump
- III. Vacuum assisted, centrifugal
- IV. Self-priming
- V. Sizes:
 - i. 6" x 4"
 - 1. Max flow – 2,000 US GPM
 - 2. Max Head – 220 ft.
 - 3. Solids Size – 3"
 - ii. 6" x 6"
 - 1. Max flow – 3,400 US GPM
 - 2. Max Head – 200 ft.
 - 3. Solids Size – 3"
 - iii. 8" x 8"
 - 1. Max flow – 4,500 US GPM
 - 2. Max Head – 200 ft.
 - 3. Solids Size – 3"
 - iv. 12" x 12"
 - 1. Max flow – 9,500 US GPM
 - 2. Max Head – 325 ft.
 - 3. Solids Size – 3.6"
 - v. 30" x 30"
 - 1. Max flow – 44,000 US GPM
 - 2. Max Head – 126 ft.
 - 3. Solids Size – 5.9"
- VI. Acceptable Brands/Models – Pioneer Pump 64S12, 66S12, 88S12, 1212S17, 3030S34 or equal.
- VII. Pumps Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Pumps Category. The Contractor shall apply a percent off discount for items within the catalog. The Contractor shall offer all accessories necessary to effectively use the equipment. The Contractor shall offer various sizes of the equipment in the catalog.

t. Barricades & Fencing

I. Rental Term – Weekly or Monthly

II. Water-Filled Barricades

- i. Length: 72"
- ii. Width: 18"
- iii. Height: 32"
- iv. Capacity Weight: 1100 lbs.
- v. Impact Capacity: 4400 lbs. at 31 mph
- vi. Forklift and pallet jack slots
- vii. Hinge design
- viii. Includes steel connection and keeper pin to lock sections together
- ix. Molded from low density polyethylene
- x. Acceptable brand/model: TrafFix 45032-0 or equal

III. A- Frame Fencing

i. A-Frame Leg Dimensions:

- 1. Thickness: 1.8"
- 2. Width: 31"
- 3. Height: 42"
- 4. Weight: 6.5 lbs.

ii. Includes barricade legs and barriers

iii. Material: UV stabilized polymer with a cold weather protection package

IV. Lightweight Steel Barricades

- i. Height: 44"
- ii. Length: 8'6"
- iii. Width: 26"
- iv. Weight: 24 lbs.
- v. Flat or bridge feet
- vi. Material: Galvanized Steel
- vii. Interlocking design

V. Barricades & Fencing Catalog – Contractor shall offer a catalog of additional accessories, equipment, and rental lengths in the Barricades & Fencing Category. The Contractor shall apply a percent off discount for items within the catalog. The Contractor shall offer various sizes of the equipment in the catalog.